

THE STRATIOMYIDAE OF NEW JERSEY.<sup>1</sup>

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The Stratiomyidae, small to rather large bristleless flies, bare or only slightly pubescent, are commonly called "Soldier Flies" because of their conspicuous bands or strips of white, yellow, or green. They occur on flowers or other herbage, especially on long grass near water. Some of the distinguishing characteristics include the annulate third antennal segment usually having an arista, the crowding and strengthening of the wing veins near the costa, and the conspicuous development of the thorax.

There are no satisfactory keys covering the entire family. Dr. C. H. Curran, however, has published a synopsis of the Canadian species.<sup>2</sup>

I have examined material in the American Museum of Natural History (A) and the Academy of Natural Sciences in Philadelphia (P). The private collection of J. L. C. and W. F. Rapp (R) contains only two specimens of Stratiomyidae. Records have also been taken from J. B. Smith's "Insects of New Jersey," 1909 (S). Although this catalogue contains the same number of genera and only four more species than that of Smith, it includes 46 additional localities.

## ADOXOMYIA Kertesz.

*A. subulata* (Loew)

*Clitellaria subulata* Loew, Cent., VI, 29. Hunterdon Co. VI-21-1918 (A); Riverton VIII-8 (S).

## ALLOGNOSTA Osten Sacken.

*A. fuscitarsis* (Say)

*Beris fuscitarsis* Say, Acad. Sci. Phil., III, 29. Anglesea V-27, Caldwell, New Brunswick, Newark VI-15, Trenton V-21 (S).

*A. obscuriventris* (Loew)

*Metoponia obscuriventris* Loew, Cent., IV, 45. Anglesea V-30, Culver's Lake V-29, Ocean Co. V-30, Westville VI-15 (S).

<sup>1</sup> Contribution to a New Catalogue of New Jersey Diptera, II.

<sup>2</sup> Curran, C. H. 1927. Trans. Roy. Soc. Can., Sec. V, pp. 191-228.

ACTINA Meigen.

*A. viridis* Say

Long's Exped., App., 368. Ashland V-30, Clementon V-30, New Brunswick, Ocean Co. (S).

EUPARYPHUS Gerstaecker.

*E. tetraspilus* Loew

Cent., VII, 15. Boonton VI-14 (S).

HERMETIA Latreille.

*H. illucens* (Linn.)

*Musca illucens* and *leucopa* Linn., Syst. Naturae, 12th ed., II, 979. Trenton VII-7 (S).

GEOSARGUS Bezzi.

*G. caeruleifrons* (Johnson)

*Sargus caeruleifrons* Johnson, Ent. News XI, 325. Dunnfield VII-12, Riverton VI-15 (S).

*G. cuprarius* (Linn.)

*Musca cuprarius* Linn., Fauna Suecica, 1853. Arlington VIII-20-1918, Caldwell VIII-13-1917, Irvington VII-2-1918, Newark VI-14-1912, Orange Mts. VI, Rutherford VIII-16-1918 (A).

*G. elegans* (Loew)

*Sargus elegans* Loew, Cent., VII, 10. Caldwell (S); Forest Hill VIII, New Brunswick VIII-15-1918, Ramsey VI-23-1935 (A).

*G. decorus* Say

Long's Exped., App., 376. Forest Hill IX, New Brunswick IX-15, Newark V, Ramsey, V-30-1931 (A); Trenton V-26 (P); Caldwell, Cape May VI-17-1915, Jamesburg VIII-4, Merchantville V-26, Newark VI-14, Riverton VI-15, Trenton V-26 (S).

*G. viridis* Say

Jour. Acad. Sci. Phil., III, 87. Clementon V-30 (S); Trenton V-21 (P & S).

MACROSARGUS Bigot.

*M. clavis* Will.

Can. Ent., XVII, 123. Hunterdon Co. VI-15-1918, New Brunswick, VI-15-1918 (A); Newark VI (S).

## MICROCHRYSA Loew.

*M. polita* (Linn.)

*Musca polita* Linn. Fauna Suecica, 1854. Merchantville VIII-19, New Brunswick, Newark V (S).

## NEMOTELUS Geoffroy.

*N. carbonarius* Loew

Cent., VIII, 6. Anglesea VII-4, Avalon VI-8, Cape May VI-14 (S).

*N. crassus* Loew

Cent., III, 10. Lenola V-30 (S).

*N. melanderi* Banks

Canad. Ent., LII, 65. Morgan VI-5-19, VII-19-30, VIII-7 (A).

*N. unicolor* Loew

Cent., III, 11. Manahawkin IX-5-10 (A).

## ODONTOMYIA Meigen.

*O. cincta* Olivier

Encycl. Méthodique, VIII, 432. Anglesea V-14 (S); Arlington VI-4 (A); Avalon VI-9, Cape May VI-14, Palisades VI-7 (S); Ramsey VI-12-1912 (A).

*O. flavicornia* Olivier

Encycl. Méthodique, VIII, 433. Caldwell, Southern N. J. (S).

*O. hieroglyphica* Olivier

Encycl. Méthodique, VIII, 434. Morris Plains VI-25 (S).

*O. hydroleonoides* Johns.

Trans. Amer. Ent. Soc., XXII, 261, N. J. (A).

*O. interrupta* Olivier

Encycl. Méthodique, VIII, 433. Brown's Mills V-17-1921, Hemlock Falls V, Morgan V-25, Orange VI-5-1932, Overbrook VIII-30-1907, Ramsey V-30-1917 (all A); Ashland V-13, Clemonton V-10, Sandy Hook, Westville IV-26 (all S); Clemonton, Medford V-13-05, Pemberton V-10-08 (P).

*O. microstoma* Loew

Cent., VI, 28. Anglesea VII-25, Avalon VIII-2-92, Cape May VI-22, Sea Isle City VII-14-18, Wildwood VII-20 (all P); Atlantic City VII-15 (S).

*O. profuscata* Steyskal

Occ. Pap. Mus. Zool. Univ. Mich., Ann Arbor, no. 386, 1938, 3, 4. Rutherford (A).

*O. pubescens* Day

Proc. Acad. Nat. Sci. Phil., 77, 1882. Sandy Hook (S).

*O. vertebrata* Say

Long's Exped., App., 369. Anglesea V-30, VII-19 (S & P), Ashland VII-16, Avalon VI-30 (S); Snake Hill VII-16 (A); Westville VI-14 (S).

*O. virgo* (Wiedemann)

*Stratiomys virgo* Wiedemann, Auss. Zw., II, 69. Arlington VII-12, Burlington Co. VI-27-1918, Montclair VII-15-1900, Mt. View VII, Rutherford (A); Clementon VI-25, Merchantville VI-28, Trenton VII-7, Westville VIII-12 (S).

OXYCERA Meigen.

*O. maculata* Olivier

Encycl. Méthodique, VIII, 600. Clementon V-30 (P); Egg Harbor VII-10, Lenola, Merchantville VI-28 (S).

PACHYGASTER Meigen.

*P. pulcher* Loew

Cent., III, 16. Avalon VII-22 (S).

PTECTICUS Loew.

*P. trivittatus* Say

Jour. Acad. Sci. Phil., VI, 159. Bloomfield VII (A); Dunnfield VII-8 (S); Hemlock Falls VII, New Brunswick VII-18-1918 (A); New Brunswick VII-29-1943, IX-11-1943 (R); Ramsey VIII-20-1942, VII-5, 18-1935 (A); Riverton VI-20, VII-3, Westville VIII-8.

*P. sackeni* Will.

Can. Ent., XVIII, 124. Brown's Mills VIII-30, Dunnfield VII-15, New Brunswick VIII-21, Riverton VII-16, Westville VII-2 (S).

STRATIOMYIA Geoffroy.

*S. discalis* Loew

Cent., VI, 14. Ashland VI-21, Clementon V-16, Cramer Hill V-23, Elizabeth V-17, Westville VI-15 (S).

*S. norma* Wied.

Auss. Zw., 62. Caldwell, Delaware Water Gap VII-15 (S).

*S. meigenii* Wied.

Auss. Zw., II, 61. Anglesea VII-19 (S); Cape May VII-2-1933 (P); Westville VII-5, VIII-8 (S).